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7/34. (New) The system of claim 35 wherein said receiver is for holding, simultaneously for each of said plurality of transmitters, data indicative of an expected time and an expected frequency of at least one future routine transmission.

35. (New) The system of claim 38 wherein each of said plurality of transmitters includes, in at least a portion of said routine transmissions, data for indicating at least one of: (a) frequency sequence for controlling frequency of said transmission opportunities, and (b) time sequence for controlling time of said transmission opportunities.

(New) The system of claim 38 wherein each of said plurality of transmitters includes, in at least a portion of said routine transmissions, data for indicating at least one of: (a) frequency of at least one future transmission opportunity, and (b) time of at least one future transmission opportunity.

(New) The system of claim 33 wherein said transmission opportunities are synchronized with said routine transmissions.

(New) The system of claim 33 wherein transmission frequency of said routine transmissions is controlled according to a first sequence, and frequency of said transmission opportunities is controlled according to a second sequence, and said first sequence is synchronized with said second sequence.

(New) The system of claim 33 wherein said first time intervals are controlled according to a first sequence, and said second time intervals are controlled according to a second sequence, and said first sequence is synchronized with said second sequence.

(New) A method comprising:

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transmitting, by each of a plurality of transmitters, intermittently and at various transmission frequencies: (a) routine transmissions, at first time intervals, and (b) urgent transmissions, in response to urgency, at transmission opportunities at second time intervals; wherein said transmissions are independent of any receiver for receiving any of said transmissions and independent of any of said plurality of transmitters, and

holding, in a receiver, simultaneously for each of said plurality of transmitters, data indicative of an expected time and an expected frequency of at least one future transmission opportunity.

(New) The method of claim for further comprising holding, in said receiver, simultaneously for each of said plurality of transmitters, data indicative of an expected time and an expected frequency of at least one future routine transmission.

1/0 42. (New) The method of claim 40 further comprising, including by each of said plurality of transmitters, in at least a portion of said routine transmissions, data for indicating at least one of: (a) frequency sequence for controlling frequency of said transmission opportunities, and (b) time sequence for controlling time of said transmission opportunities.

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1 43. (New) The method of claim 46 further comprising, including by each of said plurality of transmitters, in at least a portion of said routine transmissions, data for indicating at least one of: (a) frequency of at least one future transmission opportunity, and (b) time of at least one future transmission opportunity.

New) The method of claim 40 wherein said transmission opportunities are synchronized with said routine transmissions.

1345. (New) The method of claim 40 wherein transmission frequency of said routine transmissions is controlled according to a first sequence, and frequency of said transmission opportunities is controlled according to a second sequence, and said first sequence is synchronized with said second sequence.

1 46. (New) The method of claim 40 wherein said first time intervals are controlled according to a first sequence, and said second time intervals are controlled according to a second sequence, and said first sequence is synchronized with said second sequence.

\\S47. (New) A telemetry receiver comprising:

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logic for holding, simultaneously for each plurality of transmission opportunities, data indicative of an expected time and an expected frequency of at least one future opportunity, wherein each said plurality of opportunities is for a different one of a plurality of transmitters, and wherein each of said plurality of transmitters is for transmitting intermittently, at various transmission frequencies: (a) routine transmissions, at time intervals, and (b) urgent transmissions, in response to urgency, at at least one of said opportunities; wherein each of said plurality of transmitters is for transmitting independently of any receiver for receiving any of said transmissions and independently of any other of said plurality of transmitters, and

a frequency selective circuit for receiving said transmissions.

(New) The receiver of claim 47 wherein said logic is, further, for holding simultaneously for each of said plurality of transmitters, data indicative of an expected time and an expected transmission frequency of at least one future routine transmission.

(New) The receiver of claim M wherein, in operation, for each of said plurality of transmitters, said receiver changes frequency of said frequency selective circuit to said expected frequency of said at least one transmission opportunity at such time relative to said expected time of said at least one transmission opportunity to receive and demodulate, when it occurs, said at least one urgent transmission.

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(New) The receiver of claim A comprising a frequency error detector to detect a difference between an actual and an expected transmission frequency of said routine transmissions, wherein said receiver utilizes said difference to determine an expected time of a future transmission opportunity.

(New) The receiver of claim wherein said receiver detects a difference between an actual and an expected transmission time of said routine transmissions, and wherein said receiver utilizes said difference to determine an expected time of a future transmission opportunity.

New) The receiver of claim 47 wherein, said receiver extracts, from at least a portion of said routine transmissions, data indicative of at least one of: (a) pattern of frequency variations for said transmissions opportunities, and (b) pattern of time interval variations for said transmission opportunities.

New) The receiver of claim wherein, said receiver determines at least one of: (a) time of at least one future transmission opportunity and (b) frequency of at least one future transmission opportunity based on data included in at least one routine transmission.

(New) A plurality of telemetry transmitters, each of which comprises:

a circuit for transmitting intermittently and at various transmission frequencies: (a) routine transmissions, at first time intervals, and (b) urgent transmissions, in response to urgency, at transmission opportunities at second time intervals, and

logic for controlling frequency and time for said transmission opportunities and said routine transmissions independently of any receiver for receiving any of said transmissions and independently of any other of said plurality of transmitters.

755. (New) The plurality of transmitters of claim 54 wherein said transmission opportunities are synchronized with said routine transmissions.

synchronized with said routine transmissions.

256. (New) The plurality of transmitters of claim 54 wherein each of said plurality of transmitters includes, in at least a portion of said routine transmissions, data indicative of synchronization information for at least a portion of future transmission opportunities.

(New) The plurality of transmitters of claim 54 wherein each of said plurality of transmitters controls transmission frequency and time according to a frequency-time sequence that is different for each of said plurality of transmitters.

(New) The plurality of transmitters of claim 54 wherein each of said plurality of transmitters includes, in at least a portion of said routine transmissions, data indicative of a sequence for controlling at least one of: (a) frequency, and (b) time, for at least a portion of future transmission opportunities.

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(New) The plurality of transmitters of claim 54 wherein transmission frequency of said routine transmissions is controlled according to a first sequence, and frequency of said transmission opportunities is controlled according to a second sequence, and said first sequence is synchronized with said second sequence.

(New) The plurality of transmitters of claim 54 wherein said first time intervals are controlled according to a first sequence, and said second time intervals are controlled according to a second sequence, and said first sequence is synchronized with said second sequence.

61. (New) A plurality of telemetry transmitters, each of which comprises:

a circuit for transmitting intermittently and at various transmission frequencies: (a) routine transmissions, at first time intervals, and (b) urgent transmissions, in response to urgency, at transmission opportunities at second time intervals, and

logic for including in at least a portion of said routine transmissions data indicative of at least one of: (a) frequency pattern for varying frequency for said transmission opportunities and (b) time pattern for varying said second time intervals;

wherein each of said plurality of transmitters is for transmitting independently of any receiver for receiving any of said transmissions and independently of any other of said plurality of transmitters.

30 62. (New) The plurality of transmitters of claim of wherein said data is based on bits of transmitter identification.

39 (New) The plurality of transmitters of claim 64 wherein said transmission opportunities are synchronized with said routine transmissions.

synchronized with said routine transmissions.

3/6/. (New) The plurality of transmitters of claim 6/ wherein each of said plurality of transmitters includes, in at least a portion of said routine transmissions, data indicative of synchronization information for at least a portion of future transmission opportunities.

(New) The plurality of transmitters of claim of wherein each of said plurality of transmitters controls transmission frequency and time according to a frequency-time sequence that is different for each of said plurality of transmitters.

(New) The plurality of transmitters of claim 61 wherein transmission frequency of said routine transmissions is controlled according to a first sequence, and frequency of said transmission opportunities is controlled according to a second sequence, and said first sequence is synchronized with said second sequence.

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